oplement to "Journal of the ological Society of Australia", 1. 17, Pt 2.

## JOURNAL

OF THE

## GEOLOGICAL SOCIETY OF AUSTRALIA

Volume 17



UNIVERSITY OF HAWAII LIBRARY

SYDNEY 1971 Wholly set up and printed in Australia at The Griffin Press, Adelaide

Part 1 issued November, 1970 Part 2 issued April, 1971

## 1971 THE GEOLOGICAL SOCIETY OF AUSTRALIA INCORPORATED

Office Bearers 1970-1971 (Elected 18 August 1969)

President: A. F. TRENDALL

Vice-Presidents: NELLY H. LUDBROOK, D. A. BROWN

Hon. Secretary: D. K. JONES

Hon. Treasurer: D. L. ROWSTON

Hon. Administrative Officer: K. G. MOSHER

Hon. Editor: J. E. GLOVER

Editorial Advisers: DOROTHY HILL, E. S. HILLS, J. F. LOVERING, A. A. ÖPIK,
R. T. PRIDER, R. W. R. RUTLAND

Please address enquiries as follows:

Editorial Matters: Dr J. E. GLOVER, Department of Geology,
University of Western Australia, Nedlands, W.A. 6009.

Purchase of copies of Journal: Mr K. G. Mosher, Geological Society's Office,
Science House, 157 Gloucester Street, Sydney, N.S.W. 2000.

## CONTENTS

George Seddon:  Meteor Crater: a Geological Debate	1
J. D. Armstrong:  Microstructure of the Shell of the Brachiopod Wyndhamia clarkei	13
N. F. Exon, T. Langford-Smith & Ian McDougall:  The Age and Geomorphic Correlations of Deep-Weathering Profiles, Silcrete and Basalt in the Roma-Amby Region, Queensland	21
L. H. HAMILTON, A. R. RAMSDEN & J. F. STEPHENS:  Fossiliferous Graphite from Undercliff, New South Wales	31
D. H. WYATT & A. W. WEBB:  Potassium-argon Ages of some Northern Queensland Basalts and an Interpretation of Late Cainozoic History	39
R. B. FARQUHARSON & J. R. RICHARDS:  Whole-rock U-Th-Pb and Rb-Sr Ages of the Sybella Microgranite and Pegmatite,  Mount Isa, Queensland	53
R. O. Brunnschweiler:  Contributions to the Post-Silurian Geology of Burma (Northern Shan States and Karen State)	59
F. Olgers & P. G. Flood: An Angular Permian/Carboniferous Unconformity in Southeastern Queensland and Northeastern New South Wales	81
J. V. B. Westwood: Seismicity of the Solomon and Santa Cruz Islands, Southwest Pacific	87
Dov Bahat: Optical and Infra-red Studies on High-temperature Alkali Feldspars	93
THE SUB-COMMITTEE FOR SOIL-STRATIGRAPHIC NOMENCLATURE, R. BREWER (CONVENER), K. A. W. CROOK, J. G. SPEIGHT:  Proposal for Soil-stratigraphic Units in the Australian Stratigraphic Code. Report, with Discussion of Comments on Draft Report on Soil-stratigraphic Nomenclature	103
J. C. Crowell & L. A. Frakes:  Late Palaeozoic Glaciation of Australia	115
H. T. Moors & N. W. Schleiger:	
The Sedimentary Structures of an Intrusive Conglomerate in the Flysch Sequence of Seymour East, Victoria, Australia	157
PATRICK G. QUILTY:  Cambrian and Ordovician Dendroids and Hydroids of Tasmania	171
C. M. BARTON:	
The Morwell Interseam 'Sands'	191

A. J. Stewart:					
Potassium-argon Dates from the Arltunga Nappe Complex,	North	ern Te	erritor	у -	205
J. A. COOPER & W. COMPSTON:					
Rb-Sr Dating within the Houghton Inlier, South Australia -	-	-	-	-	213
C. J. BARCLAY & J. B. JONES:					
The Kielpa Meteorite (an Olivine-bronzite Chondrite) -	-	-	17/14/1	- 1/1	221
Alan C. Moore:					
Corundum-ilmenite and Corundum-spinel Associations in G	ranulite	e Faci	es Ro	cks	
from Central Australia	1	17	-	- 111	227
CORRESPONDENCE—THE SILURIAN OF CANBERRA	-	10	-	121	231